

In the Claims:

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- 1 1. (original) A method for assisting the driver of a vehicle
2 during a parking maneuver, wherein a parking gap is sensed
3 and measured from the vehicle and a setpoint trajectory (5)
4 along which the vehicle is to be moved during the parking
5 maneuver is determined in accordance with a predefined
6 parking strategy, characterized in that a parking situation
7 image on which the parking gap (7), an optimum setpoint
8 position (4) as well as a first vehicle (1) and a second
9 vehicle (2) are represented in a plan view is displayed to
10 the driver on an image display device, wherein the optimum
11 setpoint position (4) corresponds to a position which the
12 vehicle is intended to adopt within the parking gap (7),
13 the first vehicle (1) corresponds to the vehicle in its
14 instantaneous position and the second vehicle (2)
15 corresponds to the vehicle in a target position (2) which
16 the vehicle is expected to adopt when it is moved along the
17 setpoint trajectory (5).

- 1 2. (original) The method as claimed in claim 1, characterized
2 in that the setpoint trajectory (5) is determined as a
3 function of the initial steering angle.

Claims 3 to 21 (canceled).

1 **22.** (original) A device for assisting the driver of a vehicle
2 during a parking maneuver, having surroundings-sensing
3 means for sensing and measuring a parking gap in the
4 surroundings of the vehicle, having evaluation means for
5 determining a setpoint trajectory (5) along which the
6 vehicle is to be moved during the parking maneuver, having
7 information means for informing the driver about the driver
8 actions necessary to execute the parking maneuver, and
9 having position sensing means for determining the position
10 of the vehicle, characterized in that the information means
11 comprise an image display device for displaying a parking
12 situation image on which the parking gap (7), an optimum
13 setpoint position (4) which can be reached by the vehicle
14 within the parking gap (7), the setpoint trajectory (5) as
15 well as a first vehicle (1) corresponding to the vehicle in
16 its instantaneous position and a second vehicle (2)
17 corresponding to the vehicle in a target position which it
18 is expected to reach can be represented in a plan view.

1 **23.** (new) The method as claimed in claim 1, characterized in
2 that the setpoint trajectory (5) is determined in such a
3 way that it has a first section which starts at a starting
4 point (5a) and can be traveled through with a constant
5 steering angle and whose profile is predefined by the
6 steering angle which is set at the starting point (5a).

1 **24.** (new) The method as claimed in claim 23, characterized in
2 that the setpoint trajectory (5) is determined in such a

3 way that a second section which can be traveled through
4 with a constant steering angle adjoins the first section.

1 **25.** (new) The method as claimed in claim 1, characterized in
2 that the setpoint trajectory (5) is represented on the
3 parking situation image.

1 **26.** (new) The method as claimed in claim 1, characterized in
2 that the parking gap (7) is determined and measured while
3 the vehicle is traveling past the parking gap, and in that
4 the driver is requested to move back if he has traveled
5 past the starting point of the setpoint trajectory.

1 **27.** (new) The method as claimed in claim 26, characterized in
2 that the vehicle is automatically stopped if it has reached
3 the starting position (5a).

1 **28.** (new) The method as claimed in claim 1, characterized in
2 that when the vehicle is stationary the driver is requested
3 to turn the steering wheel.

1 **29.** (new) The method as claimed in claim 28, characterized in
2 that the driver is requested to move the second vehicle (2)
3 shown in the parking situation image into the optimum
4 setpoint position (4) by turning the steering wheel.

1 **30.** (new) The method as claimed in claim 28, characterized in
2 that the direction of rotation of the steering wheel is

3 indicated to the driver in a visual and/or acoustic and/or
4 haptic fashion.

1 **31.** (new) The method as claimed in claim 1, characterized in
2 that feedback is output to the driver if the second vehicle
3 (2) has reached the optimum setpoint position (4).

1 **32.** (new) The method as claimed in claim 31, characterized in
2 that the feedback is given by changing the color of an
3 image element which represents the second vehicle (2).

1 **33.** (new) The method as claimed in claim 1, characterized in
2 that the driver is requested to drive off with the steering
3 wheel held in position if the second vehicle (2) is in the
4 optimum setpoint position (4).

1 **34.** (new) The method as claimed in claim 1, characterized in
2 that the parking situation image is removed from the
3 display when the vehicle is driven off.

1 **35.** (new) The method as claimed in claim 27, characterized in
2 that the parking situation image is displayed when the
3 vehicle is stopped or braked.

1 **36.** (new) The method as claimed in claim 1, characterized in
2 that the vehicle is automatically stopped if the end (5b,
3 5c) of a section of the setpoint trajectory (5) which can

4 be traveled through with a constant steering angle is
5 reached during the execution of the parking maneuver.

1 **37.** (new) The method as claimed in claim 1, characterized in
2 that the position of the vehicle during the execution of
3 the parking maneuver is determined and in that the vehicle
4 is automatically stopped if it leaves a tolerance range
5 defined around the setpoint trajectory (5).

1 **38.** (new) The method as claimed in claim 37, characterized in
2 that a departure from the tolerance range (8) is indicated
3 to the driver in a visual and/or acoustic and/or haptic
4 fashion.

1 **39.** (new) The method as claimed in claim 1, characterized in
2 that the setpoint trajectory (5) is newly calculated if the
3 vehicle is stopped during the execution of the parking
4 maneuver.

1 **40.** (new) The method as claimed in claim 1, characterized in
2 that the driver is informed whether it is necessary to
3 maneuver the vehicle in order to reach the final parking
4 position.

1 **41.** (new) The method as claimed in claim 1, characterized in
2 that the speed of the vehicle during the execution of the
3 parking maneuver is limited to a value range lying below a
4 predefined maximum value.